

- * SWBAT differentiate between mass, weight, and volume
- * SWBAT observe the tendencies of objects

Sep 6-2:31 PM

Welcome!!!

SECA Physics
Tuesday 24 September 2013

- * Pick up: **H. Leslie Grebe**
 - whiteboard, marker, & eraser
 - slip of paper (for later)

Centering...
New people?

Opening Activity:

Objects at rest tend to stay at rest.

Objects in motion tend to stay in motion.

What should we call this tendency???



Sep 7-7:04 AM

NEWTON'S 1ST LAW:

MATTER — Objects at rest tend to stay at rest.
Objects in motion tend to stay in motion.

INERTIA is the name for the
 tendency of matter to resist changes.
PROPERTY

<http://www.youtube.com/watch?v=bebSxF0rr5I>

- Bill Nye theme
- Discuss side board

LESLIE: INERTIA IS

STUDENTS: MATTER RESISTING CHANGE

Sep 20-1:38 PM

MASS IS A MEASURE OF INERTIA — How HARD IT IS TO PUSH OR PULL
 ↳ KILOGRAMS (kg)

WEIGHT IS A FORCE DUE TO GRAVITY
 ↳ NEWTONS (N)
 (also pounds)

$$W = m \cdot g$$

ON EARTH

VOLUME HOW MUCH SPACE DOES SOMETHING TAKE UP.
 ↳ CUBIC METERS (m³)
 ↳ LITER (L)

Sep 27-3:00 PM

How about some practice...

1. If I take this metal chunk to the moon
Will it change its mass, weight, volume?
NO YES NO
2. If I crush an empty soda pop can
Will it change its mass, weight, volume?
NO NO YES
3. If I flatten out a blob of Play Doh
Will it change its mass, weight, volume?
NO NO NO
4. Which has more volume:
a pound of feathers or a pound of bricks?
5. Which has more weight: SAME
a pound of feathers or a pound of bricks?
6. Which has more mass:
a pound of feathers or a pound of bricks? SAME
BOTH ON EARTH

Sep 21-2:13 PM

Now more individual practice...

Alone or with another person, work on the questions on the worksheet.
Use the terms, ask for help if you need it.

When you are finished:

- * Make sure you understand the terms on the board.
(They will be erased for the 3 questions.)

Sep 24-7:36 AM

Daily 3 Questions

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. _____ is the name for the tendency of matter to resist changes in its motion.

- ☒ A. Inertia
- ☐ B. Mass
- ☐ C. Weight
- ☐ D. Volume

2. If I compress an empty soda pop can, I am changing its

- ☐ A. Mass
- ☐ B. Weight
- ☒ C. Volume
- ☐ D. All of the above

3. What is the standard unit for mass?

- ☐ A. meters (m)
- ☒ B. kilograms (kg)
- ☐ C. newtons (N)
- ☐ D. None of the above

Sep 14-7:28 AM